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IS 12858 (1989): Belt Punches for Conveyor Belt Fasteners
(Plate Type) [PGD 6: Earth, Metal And Wood Working Hand
Tools]



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“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

BELT PUNCHES FOR CONVEYOR BELT FASTENERS (PLATE TYPE) — SPECIFICATION

भारतीय मानक

वाहक पट्टों फास्टरों के लिए बेल्ट पन्च (प्लेट नुमा) — विशिष्ट

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FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards on 3 November 1989, after the draft finalized by Earth Working and Metal Working Tools Sectional Committee had been approved by Production Engineering Division Council.

These types of belt punches are employed for special application for making holes in the conveyor belts conforming IS 1891 (in various parts) 'Rubber conveyor and elevator belting' in order to accommodate the plate type belt fasteners conforming IS 10288 : 1982 'Conveyor belt fasteners, plate type'.

While preparing this specification, considerable assistance has been taken from the details supplied by the users and manufacturer of this product.

Indian Standard

BELT PUNCHES FOR CONVEYOR BELT FASTENERS (PLATE TYPE) — SPECIFICATION

1 SCOPE

1.1 This Indian Standard covers the dimensions and other requirements of belt punches used for making holes in conveyor belts for accommodating conveyor belt fastener's (plate type).

2 REFERENCES

<i>IS No.</i>	<i>Title</i>
IS 1891 (in various parts)	Rubber conveyor and elevator belting
IS 2500 (Part 1) : 1973	Sampling inspection tables : Part 1 Inspection by attributes and by count of defects
IS 3749 : 1978	Tool and die steels for cold working (<i>first revision</i>)

3 DIMENSIONS

3.1 Dimension of belt punches shall be as given in Table 1.

4 MATERIAL

4.1 Belt punches shall be manufactured from suitable steels meeting the requirements laid down in 5 and 6.2.

Suitable Example:

Steel designation 80T3 of IS 3749 : 1978

5 HARDNESS

5.1 Belt punches shall be heat-treated up to a distance of 25 mm from the cutting edge, to achieve hardness between 390 to 510 *HV* ($\approx$ 40 to 50 *HRC*).

6 WORKMANSHIP AND FINISH

6.1 The punches shall be free from burrs, scales, seams or any other deleterious defects. The shank of the punch shall be knurled as shown in the figure under Table 1.

6.2 Cutting Edge of Punch

Cutting edge of the punch shall be sharp enough to cut holes in the conveyor belts conforming IS 1891 (in various parts).

7 SAMPLING

7.1 Unless otherwise agreed to between the supplier and the purchaser, the procedure given in IS 2500 (Part 1) : 1973 shall be followed.

7.2 For dimensions, workmanship and finish, the sampling plan with inspection level I and acceptable quality level (AQL) 2.5 percent as given in Table 1 and 2 of IS 2500 (Part 1) : 1973 shall be followed.

8 DESIGNATION

8.1 Belt punch shall be designated by its commonly used name, size of belt fastener for which it is used, and number of this Indian Standard.

Example:

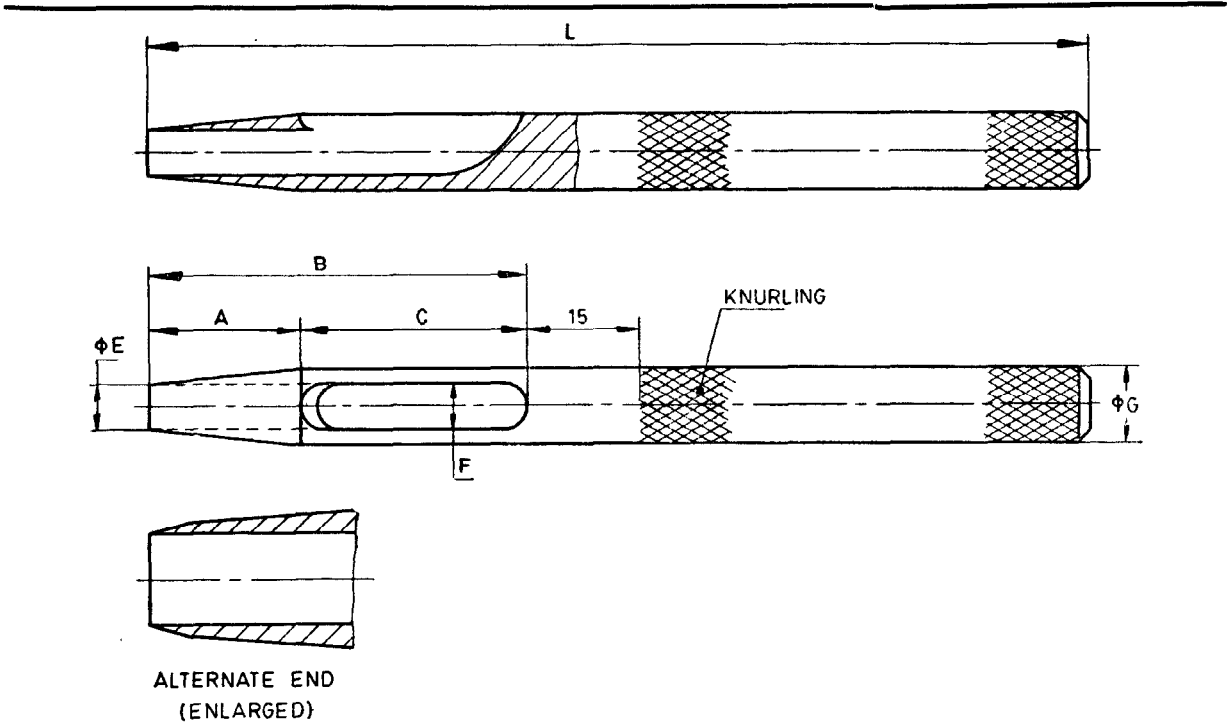
Belt punch used for fixing a belt fastener 63 and 76.2 shall be designated as:

Belt Punch IS 12858-63-76.2

9 MARKING

9.1 Belt punches shall be marked with manufacturer's name, initials or trade-mark, nominal size that is belt fastener for which it is used and the number of this Indian Standard.

Table 1 Dimension for Belt Punches
(*Clauses 3.1 and 6.1*)
All dimensions in millimetres.



Nominal Size	<i>A</i> <i>Min</i>	<i>B</i> <i>Min</i>	<i>C</i> <i>Min</i>	<i>E</i> $+0.2$ 0	<i>F</i> <i>Min</i>	<i>G</i> <i>Min</i>	<i>L</i> ± 6
25	20	50	30	6	6	10	100
	25	55	30	6	6	12	125
42.5	25	55	30	8	8	12	150
53							
63	25	60	35	10	10	14	100, 150
76.2							

NOTE — Nominal size of belt punch is the size of the belt fastener for which it is used.

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